

Title (en)
BIODEGRADABLE LUBRICATING OIL COMPOSITION

Title (de)
BIOLOGISCH ABBAUBARE SCHMIERÖLZUSAMMENSETZUNG

Title (fr)
COMPOSITION D'HUILE LUBRIFIANTE BIODÉGRADABLE

Publication
EP 2752480 A4 20150527 (EN)

Application
EP 12828806 A 20120830

Priority
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Abstract (en)
[origin: EP2752480A1] A biodegradable lubricating oil composition of the invention includes a component (A) that is an ester obtained by reacting a linear saturated aliphatic carboxylic acid and a linear aliphatic dicarboxylic acid with a polyhydric alcohol, a component (B) that is an ester obtained by reacting a linear saturated aliphatic carboxylic acid with a polyhydric alcohol, and a component (C) that is a phosphate amine salt obtained by reacting an acidic phosphate with an alkylamine, in which the linear saturated aliphatic carboxylic acid of the component (A) is formed of a linear saturated aliphatic carboxylic acid having 8 carbon atoms and a linear saturated aliphatic carboxylic acid having 10 carbon atoms, and a molar amount of the linear saturated aliphatic carboxylic acid having 8 carbon atoms is larger than a molar amount of the linear saturated aliphatic carboxylic acid having 10 carbon atoms.

IPC 8 full level
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Citation (search report)
• [IY] WO 2010128658 A1 20101111 - IDEMITSU KOSAN CO [JP], et al & EP 2428552 A1 20120314 - IDEMITSU KOSAN CO [JP]
• [Y] WO 9405745 A1 19940317 - HENKEL CORP [US]
• [A] WO 2010131739 A1 20101118 - IDEMITSU KOSAN CO [JP], et al & EP 2431450 A1 20120321 - IDEMITSU KOSAN CO [JP]
• [A] US 2009186787 A1 20090723 - SCHERER MARKUS [DE], et al
• [A] WO 9916849 A1 19990408 - UNICHEMA CHEMIE BV [NL], et al
• See references of WO 2013031894A1

Cited by
WO2016150634A1

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